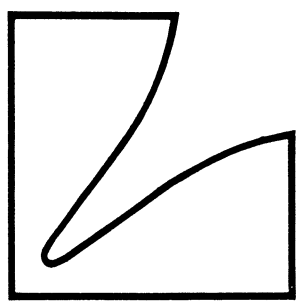


111

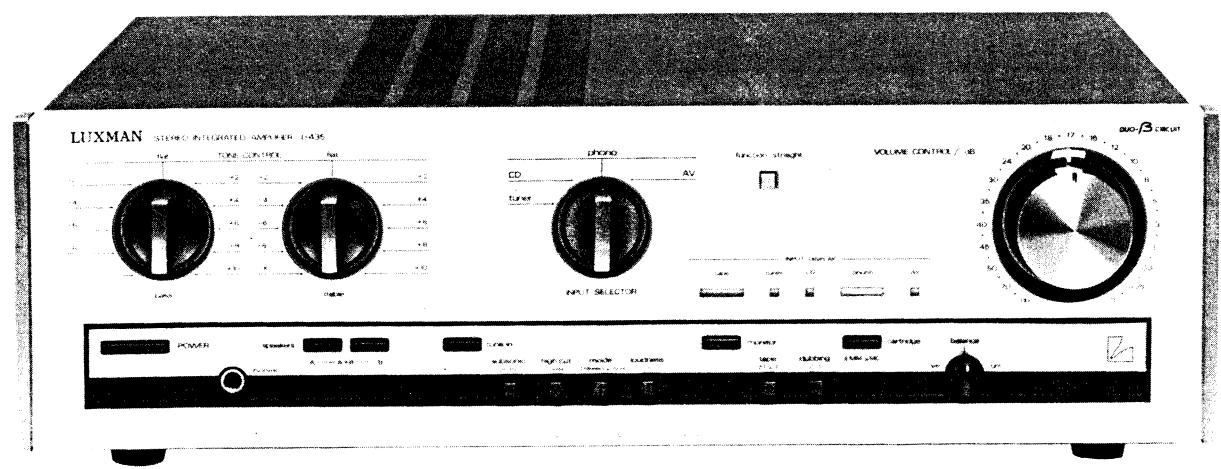
SERVICE MANUAL



Stereo Integrated Amplifier

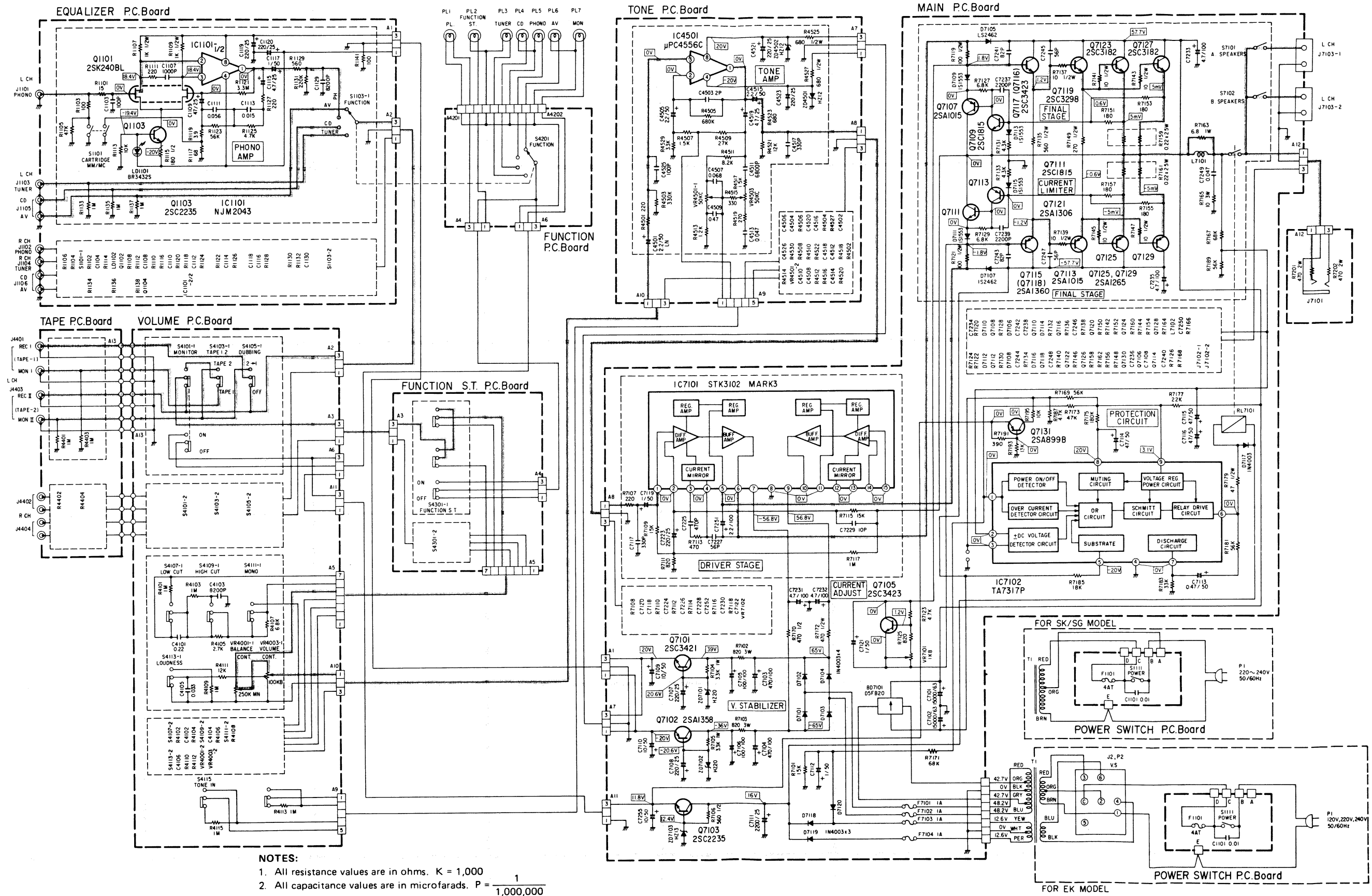
L-435

Temporary

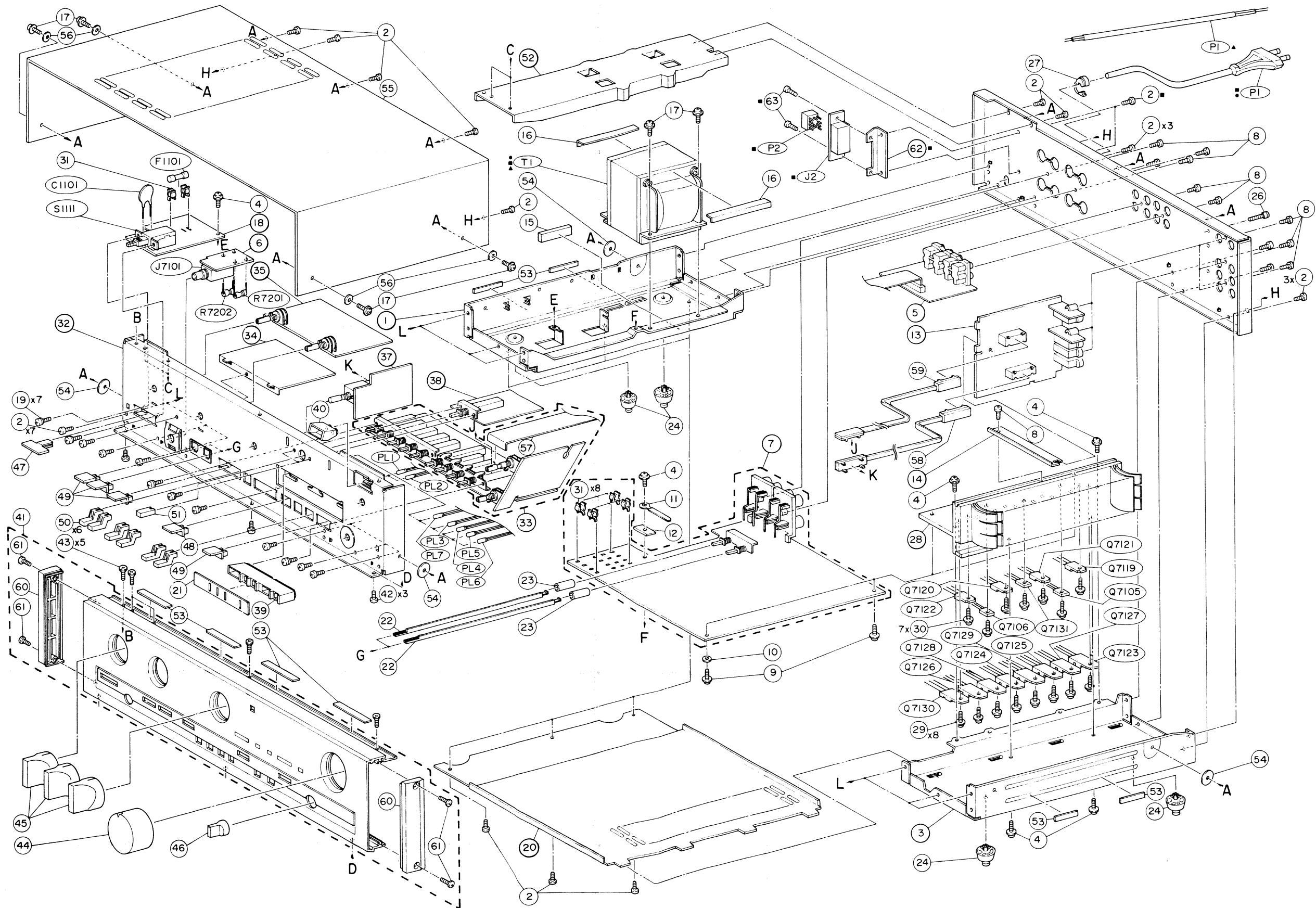


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Schematic Diagram



Exploded View (Cabinet)



Electrical Parts List

Resistors (All resistors are carbon film, 1/4W, ±5% unless otherwise noted.)
 uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
Equalizer P.C. Board		
IC		
IC1101	51T52153F01	NJM2043D-D
Transistors		
Q1101	48T60558F01	FET, 2SK240BL
Q1102	48T60558F01	FET, 2SK240BL
Q1103	48T51120F01	2SC2235-Y
Q1104	48T51120F01	2SC2235-Y
LEDs		
LD1101	48T52953F01	LED BR3432S (RED)
LD1102	48T52953F01	LED BR3432S (RED)
Switches		
S1101	40T71217F01	Slide (Cartridge MM/MC)
S1103	40T70247F01	Slide SSR244 (FUNCTION)
S4101	40T71245F01	Push SUFR43 (MONITOR)
Capacitors		
C1103	08T42081U01	Polystyrol 100 pF
C1104	08T42081U01	Polystyrol 100 pF
C1107	08S40656F01	Mylar 1000 pF
C1108	08S40656F01	Mylar 1000 pF
C1109	23T42478F31	Electrolytic 47 uF/25V
C1110	23T42478F31	Electrolytic 47 uF/25V
C1111	08T57705F76	Mylar 0.056 uF
C1112	08T57705F76	Mylar 0.056 uF
C1113	08T57705F69	Mylar 0.015 uF
C1114	08T57705F69	Mylar 0.015 uF

Symbol No.	Part No.	Description
C1115	23T42478F09	Electrolytic 4.7 uF/25V
C1116	23T42478F09	Electrolytic 4.7 uF/25V
C1117	23T42478F24	Electrolytic 1.0 uF/50V
C1118	23T42478F24	Electrolytic 1.0 uF/50V
C1119	23S41198U42	Electrolytic 220 uF/25V
C1120	23S41198U42	Electrolytic 220 uF/25V
C1129	08T57705F16	Mylar 8200 pF
C1130	08T57705F16	Mylar 8200 pF
Resistors		
All resistors are Metal Film, 1/2W ±5% unless otherwise noted		
R1107	06T55175F63	1K ohm
R1108	06T55175F63	1K ohm
R1109	06T55175F63	1K ohm
R1110	06T55175F63	1K ohm
R1115	06T55175F47	180 ohm
R1116	06T55175F47	180 ohm
Tone P.C. Board		
IC		
IC4501	51T51173F01	μPC4556C
Diodes		
ZD4501	48T52739F71	Zener HZ12A-2
ZD4502	48T52739F71	Zener HZ12A-2
Capacitors		
C4501	23T42478F26	Electrolytic 2.2 uF/50V✓
C4502	23T42478F26	Electrolytic 2.2 uF/50V✓
C4503	08T61642F02	Mica 2 pF
C4504	08T61642F02	Mica 2 pF
C4505	23T42478F26	Electrolytic 2.2 uF/50V✓

Symbol No.	Part No.	Description
C4506	23T42478F26	Electrolytic 2.2 uF/50V
C4507	08T57851F11	T.F 0.068 uF
C4508	08T57851F11	T.F 0.068 uF
C4509	08T57851F21	T.F 0.47 uF
C4510	08T57851F21	T.F 0.47 uF
C4511	08T57851F34	T.F 6800 pF
C4512	08T57851F34	T.F 6800 pF
C4513	08T57851F09	T.F 0.047 uF
C4514	08T57851F09	T.F 0.047 uF
C4515	23T42478F26	Electrolytic 2.2 uF/50V
C4516	23T42478F26	Electrolytic 2.2 uF/50V
C4517	08T42081U13	Polystyrol 330 pF
C4518	08T42081U13	Polystyrol 330 pF
C4519	23T42478F09	Electrolytic 4.7 uF/25V
C4520	23T42478F09	Electrolytic 4.7 uF/25V
C4521	23S41198U42	Electrolytic 220 uF/25V
C4523	23S41198U42	Electrolytic 22 uF/25V
C4525	08T42081U01	Polystyrol 100 pF
C4526	08T42081U01	Polystyrol 100 pF
Resistors		
R4525	06T55175F61	Metal Film 680 ohm 1/2W
R4527	06T55175F61	Metal Film 680 ohm x 1/2W
VR4501	18T56663F01	Volume, Rotary 50K ohm x 2
VR4503	18T56663F01	Volume, Rotary 50K ohm x 2
Main P.C. Board		
IC's		
IC7101	51T70237F01	STK3102 MARK 3
IC7102	51T67437F01	TA7317P
Transistors		
Q7101	48T69176F01	2SC3421-O, Y
Q7102	48T69177F01	2SA1358-O, Y
Q7103	48T51120F01	2SC2235-Y
Q7107	48T51118F01	2SA1015-Y
Q7108	48T51118F01	2SA1015-Y

Symbol No.	Part No.	Description
Q7109	48S43525F02	2SC1815-Y
Q7110	48S43525F02	2SC1815-Y
Q7111	48S43525F02	2SC1815-Y
Q7112	48S43525F02	2SC1815-Y
Q7113	48T51118F01	2SA1015-Y
Q7114	48T51118F01	2SA1015-Y
Q7115	48T64375F01	2SA1360-O, Y
Q7116	48T64376F01	2SC3423-O, Y
Q7117	48T64376F01	2SC3423-O, Y
Q7118	48T64375F01	2SA1360-O, Y
Diodes		
D7101	48S40477U01	IN4003
D7102	48S40477U01	IN4003
D7103	48S40477U01	IN4003
D7104	48S40477U01	IN4003
D7105	48T52198F01	1S2462
D7106	48T52198F01	1S2462
D7107	48T52198F01	1S2462
D7108	48T52198F01	1S2462
D7109	48T71195F01	1S1553
D7110	48T71195F01	1S1553
D7111	48T71195F01	1S1553
D7112	48T71195F01	1S1553
D7113	48T71195F01	1S1553
D7114	48T71195F01	1S1553
D7115	48T71195F01	1S1553
D7116	48T71195F01	1S1553
D7117	48S40477U01	IN4003
D7118	48S40477U01	IN4003
D7119	48S40477U01	IN4003
D7120	48S40477U01	IN4003
BD7101	48T67435F01	D5FB20
ZD7101	48T52739F86	Zener HZ20-2
ZD7102	48T52739F86	Zener HZ20-2
ZD7103	48T52739F71	Zener HZ12A-2

Symbol No.	Part No.	Description
Inductors		
L7101	24T67516F02	Choke 1.1 μ H
L7102	24T67516F02	Choke 1.1 μ H
Relay		
RL7101	80T53350F01	G2Z-222P-US
Switches		
S7101	40T70252F01	Push SUN231S (A. SPEAKERS)
S7102	40T70252F01	Push SUN231S (B. SPEAKERS)
Jacks		
J7102	09T70238F01	Terminal, SPT5968-R
J7103	09T70238F02	Terminal, SPT5958A-L
Fuses		
F7101	65T42077U16	Semko T-1A
F7102	65T42077U16	Semko T-1A
F7103	65T42077U16	Semko T-1A
F7104	65T42077U16	Semko T-1A
Capacitors		
C7101	23T71216F01	Electrolytic 15000 μ F/63V
C7102	23T71216F01	Electrolytic 15000 μ F/63V
C7103	23T68328F91	Electrolytic 470 μ F/100V
C7104	23T68328F91	Electrolytic 470 μ F/100V
C7105	23S41198U39	Electrolytic 100 μ F/100V
C7106	23S41198U39	Electrolytic 100 μ F/100V
C7107	23S41198U42	Electrolytic 220 μ F/25V
C7108	23S41198U42	Electrolytic 220 μ F/25V
C7109	23S40657F32	Electrolytic 10 μ F/50V
C7110	23S40657F32	Electrolytic 10 μ F/50V

Symbol No.	Part No.	Description
C7111	23C42170G38	Electrolytic 2200 μ F/25V
C7112	23S40657F28	Electrolytic 1.0 μ F/50V
C7113	23T57007F04	Electrolytic 0.47 μ F/50V
C7114	23S40657F35	Electrolytic 47 μ F/50V
C7115	23S40657F35	Electrolytic 47 μ F/50V
C7116	23S40657F35	Electrolytic 47 μ F/50V
C7117	08T42081U13	Polystyrol 330 pF
C7118	08T42081U13	Polystyrol 330 pF
C7119	23T42478F24	Electrolytic 1.0 μ F/50V
C7120	23T42478F24	Electrolytic 1.0 μ F/50V
C7121	23S40657F28	Electrolytic 1.0 μ F/50V
C7122	23S40657F28	Electrolytic 1.0 μ F/50V
C7223	23S41198U42	Electrolytic 220 μ F/25V
C7224	23S41198U42	Electrolytic 220 μ F/25V
C7225	08T42081U17	Polystyrol 470 pF
C7226	08T42081U17	Polystyrol 470 pF
C7227	08T61642F22	Mica 56 pF/500V
C7228	08T61642F22	Mica 56 pF/500V
C7229	08T61642F06	Mica 10 pF
C7230	08T61642F06	Mica 10 pF
C7231	23T68328F83	Electrolytic 4.7 μ F/100V
C7232	23T68328F83	Electrolytic 4.7 μ F/100V
C7233	23T68328F83	Electrolytic 4.7 μ F/100V
C7234	23T68328F83	Electrolytic 4.7 μ F/100V
C7235	23T68328F83	Electrolytic 4.7 μ F/100V
C7236	23T68328F83	Electrolytic 4.7 μ F/100V
C7237	08T57705F59	Mylar 2200 pF
C7238	08T57705F59	Mylar 2200 pF
C7239	08T57705F59	Mylar 2200 pF
C7240	08T57705F59	Mylar 2200 pF
C7241	08T61642F25	Mica 82 pF/500V
C7242	08T61642F25	Mica 82 pF/500V
C7243	08T61642F25	Mica 82 pF/500V
C7244	08T61642F25	Mica 82 pF/500V
C7245	08T61642F22	Mica 56 pF/500V
C7246	08T61642F22	Mica 56 pF/500V
C7247	08T61642F22	Mica 56 pF/500V
C7248	08T61642F22	Mica 56 pF/500V
C7249	08S40656F21	Mylar 0.047 μ F
C7250	08S40656F21	Mylar 0.047 μ F
C7251	23T68328F81	Electrolytic 2.2 μ F/100V
C7252	23T68328F81	Electrolytic 2.2 μ F/100V
C7255	23S40657F32	Electrolytic 10 μ F/50V

Symbol No.	Part No.	Description
Resistors		
All resistors are Metal Film, 1/2W $\pm 5\%$ unless otherwise noted		
R7102	06T56661F55	820 ohm 3W
R7103	06T56661F55	820 ohm 3W
R7104	06T55177F77	3.3K ohm 1W
R7105	06T55177F77	3.3K ohm 1W
R7106	06T55175F59	560 ohm
R7119	06T55175F41	100 ohm
R7120	06T55175F41	100 ohm
R7121	06T55175F41	100 ohm
R7122	06T55175F41	100 ohm
R7135	06T55175F59	560 ohm
R7136	06T55175F59	560 ohm
R7137	06T55175F17	10 ohm
R7138	06T55175F17	10 ohm
R7139	06T55175F17	10 ohm
R7140	06T55175F17	10 ohm
R7141	06T55175F17	10 ohm
R7142	06T55175F17	10 ohm
R7143	06T55175F17	10 ohm
R7144	06T55175F17	10 ohm
R7145	06T55175F17	10 ohm
R7146	06T55175F17	10 ohm
R7147	06T55175F17	10 ohm
R7148	06T55175F17	10 ohm
R7149	06T55175F51	270 ohm
R7150	06T55175F51	270 ohm
R7159	06T67397F01	Cement 0.22 ohm 5W
R7160	06T67397F01	Cement 0.22 ohm 5W
R7161	06T67397F01	Cement 0.22 ohm 5W
R7162	06T67397F01	Cement 0.22 ohm 5W
R7163	06T55177F13	6.8 ohm 1W
R7164	06T55177F13	6.8 ohm 1W
R7165	06T56661F17	10 ohm 3W
R7166	06T56661F17	10 ohm 3W
R7170	06T55175F57	470 ohm
R7172	06T55175F57	470 ohm
R7179	06T55175F33	47 ohm
VR7101	18C41732G07	Volume 1K ohm-B
VR7102	18C41732G07	Volume 1K ohm-B

Symbol No.	Part No.	Description
Power Switch P.C. Board		
Switch		
S1101	40T70311F01	Power SDLB1P
Fuse		
F1101	65T42077U22	Semko T-4A
Capacitors		
C1101	08T57437F09	Ceramic 0.01 uF
Volume P.C. Board		
Switches		
S1101	40T71245F01	Push SUFR43 (Cartridge MM/MC)
S4101		Push SUFR43 (MONITOR)
S4103		Push SUFR43 (TAPE 1, 2)
S4105		Push SUFR43 (DUBBING)
S4107	40T70239F01	Push SUN531 (LOW CUT)
S4109	40T70239F01	Push SUN531 (HIGH CUT)
S4111	40T70239F01	Push SUN531 (MONO)
S4113	40T70239F01	Push SUN531 (LOUDNESS)
S4115	40T70239F01	Push SUN531 (TONE IN)
Capacitor		
C4101	08T57851F17	TF 0.22 uF
C4102	08T57851F17	TF 0.22 uF
C4103	08S40656F12	Mylar 8200 pF
C4104	08S40656F12	Mylar 8200 pF
C4105	08S40656F19	Mylar 0.033 uF
C4106	08S40656F19	Mylar 0.033 uF
Resistors		
VR4001	18T70250F01	Volume, Rotary 250K ohm MN (BALANCE CON)
VR4003	18T68333F01	Volume, Rotary 100K ohm B x 2 (VOLUME CONT)

Symbol No.	Part No.	Description
Function P.C. Board		
Switch		
S4201	40T70246F01	Rotary SRZ (FUNCTION)
Function S.T. P.C. Board		
Switch		
S4301	40T70253F01	Push SUN121A (FUNCTION S, T)
Tape P.C. Board		
Jacks		
J4401	09T68830F02	Plate, Phone 4P T5858
J4402	09T68830F02	Plate, Phone 4P T5858
J4403	09T68830F02	Plate, Phone 4P T5858
J4404	09T68830F02	Plate, Phone 4P T5858
Miscellaneous		
■ C1101	08T57437F09	Capacitor, Ceramic, 0.01μF
■ F1101	65T42077U22	Fuse, Semko T-4A
■ J2	09T51831F01	Socket, Switch M-1615
● J7101	09T56010F01	Jack, Headphone M1669
● P1	28T43812P02	Plug, AC Cord
■ P1	28T43812P02	Plug, AC Cord
▲ P1	28T68132F01	AC Cord (SAA)
■ P2	09T51830F01	Plug, Switch P-2120
PL1	65T70299F01	Lamp, Pilot 12V-40mA
PL2	65T70299F03	Lamp, Pilot 12V-40mA (GRN)
PL3	65T70299F02	Lamp, Pilot 12V-40mA (YEL)
PL4	65T70299F02	Lamp, Pilot 12V-40mA (YEL)
PL5	65T70299F03	Lamp, Pilot 12V-40mA (GRN)
PL6	65T70299F02	Lamp, Pilot 12V-40mA (YEL)
PL7	65T70299F02	Lamp, Pilot 12V-40mA (YEL)
Q7105	48T64376F01	Transistor, 2SC3423
Q7106	48T64376F01	Transistor, 2SC3423
Q7119	48T60555F01	Transistor, 2SC3298
Q7120	48T60555F01	Transistor, 2SC3298
Q7121	48T60556F01	Transistor, 2SA1306

Symbol No.	Part No.	Description
Q7122	48T60556F01	Transistor, 2SA1306
Q7123	48T58609F01	Transistor, 2SC3182
Q7124	48T58609F01	Transistor, 2SC3182
Q7125	48T58610F01	Transistor, 2SA1265
Q7126	48T58610F01	Transistor, 2SA1265
Q7127	48T58609F01	Transistor, 2SC3182
Q7128	48T58609F01	Transistor, 2SC3182
Q7129	48T58610F01	Transistor, 2SA1265
Q7130	48T58610F01	Transistor, 2SA1265
Q7131	48T56657F03	Transistor, 2SA899-B
R7201	06T00007L57	Resistor, 470 ohm-2W
R7202	06T00007L57	Resistor, 470 ohm-2W
S1111	40T70311F01	Switch, Power SDLB1P
● T1	25T70079F01	Trans., Power
▲ T1	25T70079F01	Trans., Power
■ T1	25T70079F02	Trans., Power

● : For SK model only (West Germany model), ■ : For EK model only (Europe model),
▲ : For SG model only (England/Australia model), Others: Common

Cabinet Assembly Parts List

Note: ※ The parts whose parts numbers are not entered will not be supplied.

Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
1		※	Bracket (L)	42		03S40012G03	Screw, Round (M3 x 6)
2		03S44205G02	Screw, Pan (M3 x 6)	43		03S44205G16	Screw, Countersink (M3 x 6)
3		※	Bracket (R)	44		36B67059F01	Knob, Rotary Volume
4		03C42723U02	Screw, Cap (M3 x 8)	45		36B66511F04	Knob, Rotary Volume (B)
5		※	Assembly, Tape P.C. Board	46		36B66512F04	Knob, Rotary Volume (C)
6		※	Phone P.C. Board	47		36A67060F01	Knob, Push Power
7		※	Assembly, Main P.C. Board	48		36A67061F01	Knob, Push (A)
8		03S40012G41	Screw, Tapping (M3 x 8)	49		36A67061F02	Knob, Push (A)
9		03S40018G02	Screw, Tapping (M3 x 8)	50		36A67062F02	Knob, Push (B)
10		43T45472F01	Bushing, YC40B	51		36A57180F01	Knob, Push (B)
11		29C41045P05	Lug, Wrap 54MM	52		※	Bracket, Trans
12		07A40871F01	Support, Trans Washer	53		14S53018F42	Insulator (50 x 5)
13		※	Assembly, Equalizer	54		14A68459F02	Insulator, Cover
14		※	P.C. Board	55		15C70043F01	Cover, Top
15		※	Bracket, Support	56		43A68460F02	Bushing
16		43A70226F01	Spacer, Trans	57		01T71588F01	Flat, Cable 12P
17		43A70082F01	Spacer, Rubber	58		45T70248F01	Wire, Flex Swr
18		03S40036U01	Screw, W/Washer (M4 x 8)	59		45T71243F01	Wire, Flex Swr-MM-MC
19		※	Power P.C. Board	60		07B67066F01	Frame, Panel, Side
20		03D40014G04	Screw, W/Washer (M3 x 6)	61		03S40012G93	Screw, Tapping (M3 x 8)
21		※	Cover, Bottom	■ 62		※	Bracket, Voltage Selector
22		61A66858F01	Filter, Lamp	■ 63		03S44205G19	Screw, Pan (M3 x 8)
23		07B70045F01	Bracket, Joint				
24		43A70227F01	Spacer, Pipe				
25		75A66855F01	Pad, Trannleg				
26		15D70042F01	Cover, Rear				
27		29T66964F01	Terminal, Ground				
28		43B41625J02	Support Cord				
29		※	Heat, Sink				
30		03S71252F01	Screw, Pan (M3 x 12)				
31		03S71252F03	Screw, Pan (M3 x 8)				
32		09T51410F01	Holder, Fuse				
33		※	Chassis, Front				
34		※	Assembly, Volume P.C. Board				
35		※	Bracket, Shield				
36		※	Assembly, Tone P.C. Board				
37		※	Assembly, Function				
38		※	P.C. Board				
39		※	Assembly, Function S.T.				
40		43A66824F01	P.C. Board				
41		43A70228F01	Bush, Lamp				
		01V71100F27	Bush, Lamp				
			Assembly, Front Panel				

● : For SK model only (West Germany model), ■ : For EK model only (Europe model),
▲ : For SG model only (England/Australia model), Others: Common

Packing Assembly Parts List

Symbol No.	Part No.	Description
101	68P67499F69	Owner's Manual
102	56B63425F04	Sack, Polyethylene
103	56D70052F01	Tray Packing
104	56D70052F02	Tray, Packing
105	56S60482F91	Carton, Packing
Label		
	54B42124G08	Serial No. (Rear Cover, Carton, Packing)
	● 54B44257U01	Volt (220V) (Carton Packing)
	▲ 54B44257U02	Volt (240V) (Carton Packing)
	■ 54B44257U03	Volt (220V) (Carton Packing)
	54B57610F11	Serial No. (Rear Cover)

Symbol No.	Part No.	Description

● : For SK model only (West Germany model), ■ : For EK model only (Europe model),
 ▲ : For SG model only (England/Australia model), Others: Common

Destination's Parts List

Symbol No.	Description	POWER SOURCE		
		SK 220V	SG 240V	EK 220V
		West Germany	England/Australia	Europe
J2	Socket Switch	Not Used	Not Used	09T51831F01
P1	Plug, AC Cord	28T43812P02	28T68132F01	28T43812P02
P2	Plug, Switch	Not Used	Not Used	09T51830F01
T1	Trans., Power	25T70079F01	25T70079F01	25T70079F02
62	Bracket, Voltage Selector	Not Used	Not Used	※
63	Screw, Pan	Not Used	Not Used	03S44205G19
	Label, Volt	54B44257U01	54B44257U02	54B44257U03

Note: ※ The parts whose parts numbers are not entered will not be supplied.



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